

Form PTO-1449  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>	Docket Number (Optional) <b>3592.5US (97-321.5)</b>	Application Number <b>Not yet assigned</b>
	Applicant <b>David R. Hembree</b>	
	Filing Date <b>April 12, 2001</b>	Group Art Unit <b>Unknown</b>

 JCB71 U.S. PTO  
09/03/01


### U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JMM	4,024,570	05/1977	Hartmann et al.			
	4,059,467	11/1977	Mancke et al.			
	4,081,825	03/1978	Koopman et al.			
	4,143,456	03/1979	Inoue			
	4,264,917	04/1981	Ugon			
	4,300,153	11/1981	Hayakawa et al.			
	4,323,914	04/1982	Berndlmaier et al.			
	4,358,552	11/1982	Shinohara et al.			
	4,507,675	03/1985	Fujii et al.			
	4,602,678	07/1986	Fick			
	4,628,406	12/1986	Smith et al.			

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JMM	52-77684	06/1977	Japan				
	55-128835	10/1980	Japan				
	56-4241	01/1981	Japan				
	60-94744	05/1985	Japan				
	60-178651	09/1985	Japan				

### OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

JMM	Crum, Susan, <i>Trends in Advanced Component Technologies</i> , Electronic Packaging & Production (January 1998) pages 48-53.
	Lawing, Chris, <i>Vacuum Dispensing of Encapsulants for <math>\mu</math>BGA Manufacturing</i> , Electronic Packaging & Production (February 1998 ), pages 87-91.
	Markstein, Howard W., <i>Cooling Techniques for Today's Electronics</i> , Electronic Packaging & Production (November 1997), pages 78-82.

EXAMINER 	DATE CONSIDERED 10/25/01
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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Applicant <b>David R. Hembree</b>		
Filing Date <b>April 12, 2001</b>		Group Art Unit <b>Unknown</b>

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JMM	4,642,671	02/1987	Rohsler et al.			
	4,801,998	01/1989	Okuaki			
	4,862,245	08/1989	Pashby et al.			
	4,873,615	10/1989	Grabbe			
	4,931,852	06/1990	Brown et al.			
	4,942,140	07/1990	Ootsuki et al.			
	4,961,107	10/1990	Geist et al.			
	4,984,059	01/1991	Kubota et al.			
	5,051,275	09/1991	Wong			
	5,071,787	12/1991	Mori et al.			
	5,081,067	01/1992	Shimizu et al.			
	5,101,465	03/1992	Murphy			
	5,108,955	04/1992	Ishida et al.			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JMM	62-109326	05/1987	Japan				
	62-115834	05/1987	Japan				
	62-261133	11/1987	Japan				
	2-306639	12/1990	Japan				

**OTHER DOCUMENTS**

(Including Author, Title, Date, Pertinent Pages, Etc.)

JMM		Smith, Brenda, <i>Packaging to Beat the Heat</i> , Semiconductor International (November 1997), pages 73-76.
		<i>Die Attach Products</i> , Johnson Matthey Electronics, Product Data (07/01/94), 6 pages.
		<i>Product Bulletin</i> , Dexter Electronic Materials Division (undated), 2 pages.

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**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**

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Docket Number (Optional)

**3592.5US (97-321.5)**

Application Number

**Not yet assigned**Applicant **David R. Hembree**Filing Date **April 12, 2001**Group Art Unit **Unknown**
**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SUM	5,120,665	06/1992	Tsukagoshi et al.			
	5,144,747	09/1992	Eichelberger			
	5,173,764	12/1992	Higgins, III			
	5,184,208	02/1993	Sakuta et al.			
	5,194,930	03/1993	Papathomas et al.			
	5,201,866	04/1993	Mok			
	5,218,759	06/1993	Juskey et al.			
	5,233,220	08/1993	Lamson et al.			
	5,239,200	08/1993	Messina et al.			
	5,249,101	09/1993	Frey et al.			
	5,252,853	10/1993	Michii			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
SUM	4-157758	05/1992	Japan				

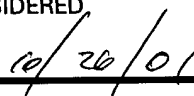
**OTHER DOCUMENTS**

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Applicant David R. Hembree

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Group Art Unit Unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JHM</i>	5,286,679	02/1994	Farnworth et al.			
	5,289,346	02/1994	Carey et al.			
	5,291,064	03/1994	Kurokawa			
	5,304,842	04/1994	Farnworth et al.			
	5,311,060	05/1994	Rostoker et al.			
	5,344,795	09/1994	Hashemi et al.			
	5,358,598	10/1994	Chiu			
	5,358,904	10/1994	Murakami et al.			
	5,358,906	10/1994	Lee			
	5,371,044	12/1994	Yoshida et al.			
	5,378,924	01/1995	Liang			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

*James H. Hembree*

DATE CONSIDERED

*10/30/01*

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Applicant David R. Hembree

Filing Date April 12, 2001

Group Art Unit Unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JMM	5,379,186	01/1995	Gold et al.			
	5,379,187	01/1995	Lee et al.			
	5,379,191	01/1995	Carey et al.			
	5,385,869	01/1995	Liu et al.			
	5,387,554	02/1995	Liang			
	5,394,303	02/1995	Yamaji			
	5,396,403	03/1995	Patel			
	5,432,127	07/1995	Lamson et al.			
	5,432,675	07/1995	Sorimachi et al.			
	5,434,105	07/1995	Liou			
	5,436,203	07/1995	Lin			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

## OTHER DOCUMENTS

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Applicant **David R. Hembree**Filing Date **April 12, 2001**Group Art Unit **Unknown**

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JUM</i>	5,438,216	08/1995	Juskey et al.			
	5,441,684	08/1995	Lee			
	5,450,283	09/1995	Lin et al.			
	5,455,200	10/1995	Bigler et al.			
	5,455,457	10/1995	Kurokawa			
	5,461,255	10/1995	Chan et al.			
	5,468,995	11/1995	Higgins, III			
	5,477,082	12/1995	Buckley, III et al.			
	5,488,254	01/1996	Nishimura et al.			
	5,489,538	02/1996	Rostoker et al.			
	5,489,801	02/1996	Blish, II			
	5,541,446	07/1996	Kierse			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)


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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JAM</i>	5,552,635	09/1996	Kim et al.			
	5,579,573	12/1996	Baker et al.			
	5,594,282	01/1997	Otsuki			
	5,596,231	01/1997	Combs			
	5,598,034	01/1997	Wakefield			
	5,604,376	02/1997	Hamburgen et al.			
	5,610,442	03/1997	Schneider et al.			
	5,641,997	06/1997	Ohta et al.			
	5,652,461	07/1997	Ootsuki et al.			
	5,656,857	08/1997	Kishita			
	5,659,952	08/1997	Kovac et al.			
	5,672,548	09/1997	Culnane et al.			
	5,681,757	10/1997	Hayes			
	5,701,034	12/1997	Marrs			

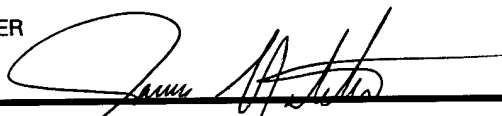
## FOREIGN PATENT DOCUMENTS

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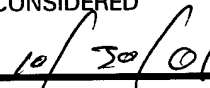
## OTHER DOCUMENTS

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